The **4ipnet HSG1200 Wireless Hotspot Gateway in 19" rack-mountable chassis** is designed to provide an easy-to-use, all-in-one solution for hotspot service providers.   A single HSG1200 enables a hotspot provider to service multiple hot-spot franchises in a mall area through the feature of **Multiple-Service-Zone**.   Each service zone can have its own login skin and an independent SSID.   HSG1200 is also ideal for hospitality application.   For example, a hotel can use the service zone feature to separate the privileges of staff, guest, and VIP usage for accessing Internet.

The HSG1200's built-in on-demand account generation capability is easy to use by cashiers or receptionists.   Each guest account is associated to a price and a usage quota, either by time or volume.   Moreover, HSG1200 works with the existing RADIUS server, if central billing had been implemented by the operator.
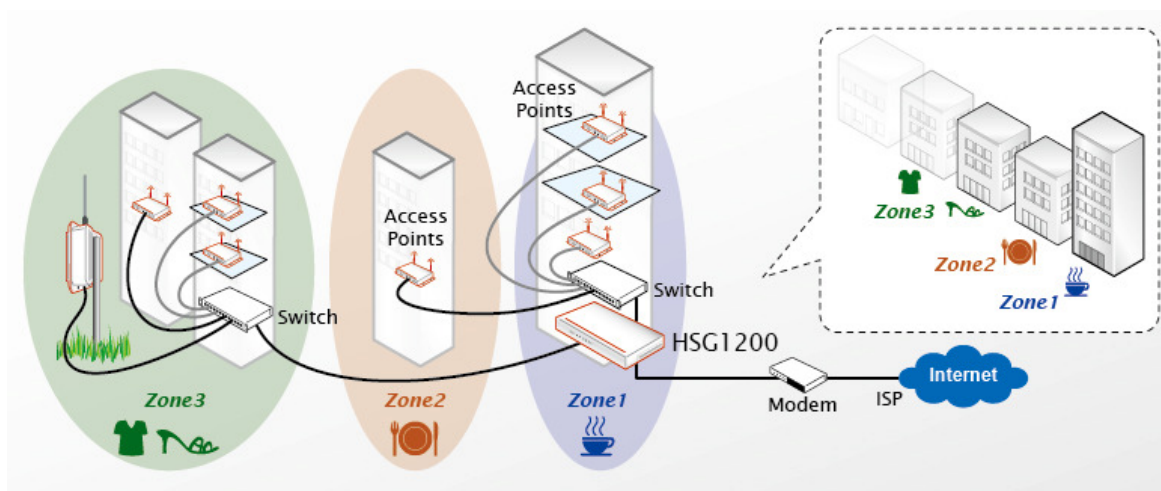
FEATURES & BENEFITS

Easy Installation and Operation

- Supports various broadband deployment options (T1, DSL, Cable) via static IP, DHCP, PPPoE, and PPTP
- Built-in user database provides sufficient account capacity for different operation scenarios
- Works with instant account generator to provide user accounts for visitor-based, on-demand operations
- Load balancing and WAN failover enhance bandwidth utilization and provide more reliable Internet connection.

Integrated Security Features

- Standard-based data encryption and user authentication: SSL, IEEE 802.1X, WPA-RADIUS
- Secure guest and administrator access using web-based login and administration over SSL
- Configurable packet filtering policies enhance data traffic security
- Built-in DoS protection prevents malicious hackers from collapsing the network

Effective User Management

- Complete authentication mechanism blocks unauthenticated users from gaining access to the network
- Role-based and policy-based control policies enhance the protection against malicious users
- "On-line user list" monitors real-time status of each individual user
- Allows session expiration control for On-demand users by time and data volume

Flexible Accounting and Billing

- Programmable billing profiles allow operators to customize the billing plans for On-demand users
- Bandwidth control enables class of service for different levels of users and maximize profits
- 4ipnet RADIUS VSA (Vendor Specific Attributes) implementation adds flexibility for accounting and session control using RADIUS server
- Detailed per-user traffic history log for analysis and record keeping
- Billing report gives a summary of transaction records for On-demand users

Networking

- Supports Router, NAT mode
- Supports static IP, DHCP, PPPoE, PPTP Dial-up
- Supports IP Plug and Play (IP PnP)
- Built-in DHCP Server and support for DHCP relay
- Supports NAT:
    - (1) IP/Port Destination Redirection
    - (2) DMZ Server Mapping
    - (3) Virtual Server Mapping
- Configurable static route
- Supports email service via designated email server
- Supports Walled Garden
- Walled Garden Advertisement List enables advertisement website links on login portal page
- Supports MAC Address Pass-Through
- Supports HTTP Proxy
- Supports Ethernet connection to external terminal servers
- Support dual uplinks, outbound load balancing and failover for more reliable Internet connection
- Support SIP pass-through NAT

Security

- Supports security standards: SSL, IEEE 802.1X and WPA-RADIUS
- Supports VPN Pass-Through (IPSec and PPTP)
- Built-in DoS attack protection
- Supports site-to-site VPN tunnel
- Supports MAC Access Control List
- Configurable user Black List
- Allows MAC address and user identity binding for local user authentication

Service Zones

- The network is divided into maximum 9 Service Zones, each defined by a VLAN tag
- Each service zone has its own (1) login portal page, (2) authentication options, (3) LAN interface IP address, and (4) DHCP address range
- Each service zone allows access to the selected groups
- Each service zone assigns a network policy to each user group

User Management

- Supports 3,000 local accounts
- Supports 2,000 on-demand accounts
- Simultaneous support for multiple authentication methods (Local and On-demand accounts, POP3, LDAP, RADIUS, NT Domain)
- Policy-based access control (per-role assignments based on Firewall Policies, Routing, Login Schedule, Bandwidth, Quota, and Session)
- User Session Management:
    - (1) SSL protected login portal page
    - (2) Supports multiple logins with one single account
    - (3) Session idle timer
    - (4) Session and account expiration control
    - (5) Notification email to provide a hyperlink to login portal page
    - (6) Supports Single Sign-On for Windows Domain
    - (7) Login time frame control
    - (8) Session limit

Accounting and Billing

- Provides billing plans for On-demand accounts
- Enables session expiration control for On-demand accounts by time (hour) and data volume (MB)
- Detailed per-user traffic history based on time and data volume for both local and On-demand accounts
- Traffic history report in an automatic email to administrator
- Supports RADIUS VSA (Vendor Specific Attributes) implementation for traffic accounting and session control
- Supports credit card payment via external payment gateways (Authorize.Net, PayPal, SecurePay)

System Administration

- Web-based management UI
- Customizable login and logout portal page
- Support for SNMP v1, v2c
- SSH remote management
- Remote firmware upgrade
- NTP time synchronization
- Menu driven console management interface
- Utilities to backup and restore the system configuration

Monitoring and Reporting

- Online status monitoring of users
- IP-based monitoring of devices
- WAN connection failure alert
- Supports external Syslog server for diagnosis and troubleshooting
- Supports user traffic history logging
- Supports user traffic session (TCP/UDP) logging
- Supports local user monthly usage report

Physical and Power

- Power Adapter: 100~240 VAC, 50/60 Hz
- Form Factor: 19" 1U Rack Mount
- Dimensions (W x D x H): 16.9" x 6.1" x 1.7" (430 mm x 155 mm x 43 mm)
- Weight: 3.3 lbs (1.5 kg)

Hardware Specification

- WAN Ports: 2 x 10/100BASE-TX RJ-45
- LAN Ports: 4 x 10/100BASE-TX RJ-45
- Console Port: 1 x RS-232 DB9
- LED Indicators: 1 x Power, 1 x Status, 2 x WAN, 4 x LAN

Environment

- Operating Temperature: 0 ~ 40 °C
- Storage Temperature: -20 ~ 65 °C

Certifications

- CE, FCC
- RoHS compliant

Package Contents

- 4ipnet HS1200 x 1
- CD-ROM (User's Manual and QIG) x 1
- Quick Installation Guide (QIG) x 1
- Console Cable x 1
- Ethernet Cable x 1
- Straight-through Ethernet Cable x 1
- Power Adaptor (DC 12V) with Power Cord x 1
- Rack Mounting Bracket (with Screws) x 1

** Specifications subject to change without notice